

What is claimed is:

1. A navigation device adapted to be installed on a vehicle and enabling information to be provided to an occupant of the vehicle, the navigation device comprising:

5 a display section displaying an image to an occupant of a vehicle;

a speech recognition section executing speech recognition processing for a voice input relating to a speech recognition object word that is a word to be an object for speech recognition, in such a manner that in a case that a failure occurs in recognition as to the speech recognition object word,
10 second speech recognition processing is executed for the speech recognition object word except for the speech recognition object word present in the image currently displayed in the display section; and

an information providing processor section compelling a predetermined image to be displayed on the display section based on a recognized content
15 resulting through the speech recognition processing in a case that the speech recognition object word is recognized through the speech recognition processing.

2. The navigation device according to claim 1, wherein the speech recognition section executes the second speech recognition processing for
20 the speech recognition object word that is present as a display object in a display scale different from a display scale of the image currently displayed on the display section.

3. The navigation device according to claim 1, wherein the speech recognition section executes at least one of the second speech recognition
25 processing for the speech recognition object word that is present as a display object in an expanded region obtained by enlarging a display region of the image currently displayed on the display section and the second speech recognition processing for the speech recognition object word that is present as a display object when a display scale of the image currently displayed on
30 the display section is rendered to be an enlarged scale.

4. The navigation device according to claim 3, wherein the speech recognition section executes at least one of the second speech recognition

processing relating to the expanded region and the second speech recognition processing relating to the enlarged scale, based on a travel history of the vehicle.

5 5. The navigation device according to claim 3, wherein the speech recognition section executes at least one of the second speech recognition processing relating to the expanded region and the second speech recognition processing relating to the enlarged scale, based on a land attribute of a current position of the vehicle.

10 6. The navigation device according to claim 1, wherein the speech recognition section executes the second speech recognition processing for a speech recognition object word that is present as a display object in an expanded region obtained by enlarging a display region of the image currently displayed on the display section and when a display scale of the image currently displayed on the display section is rendered to be a
15 contracted scale.

7. The navigation device according to claim 1, further comprising a data section that divides map data, for the image to be displayed on the display section, into mesh-like blocks and stores the map data,

20 wherein the speech recognition section executes the second speech recognition processing for the speech recognition object word that is present as a display object in an overlapped block, which is overlapped with a display region of the image currently displayed on the display section among the mesh-like blocks, and in a display scale different from a display scale of the image currently displayed on the display section.

25 8. The navigation device according to claim 7, wherein the speech recognition section executes the second speech recognition processing for the speech recognition object word present in the overlapped block that is overlapped with the display region at a rate not less than a predetermined region.

30 9. The navigation device according to claim 1, further comprising a data section that divides map data, for the image to be displayed on the display section, into mesh-like blocks and stores the map data,

wherein the speech recognition section executes the second speech recognition processing for the speech recognition object word that is present as a display object in an overlapped block, which is overlapped with an expanded region obtained by enlarging a display region of the image currently displayed on the display section, and when a display scale of the image currently displayed on the display section is rendered to be an enlarged scale.

10. The navigation device according to claim 9, wherein the speech recognition section executes the second speech recognition processing for the speech recognition object word present in the overlapped block that is overlapped with the display region at a rate not less than a predetermined area.

11. The navigation device according to claim 1, further comprising a data section that divides map data, for the image to be displayed on the display section, into mesh-like blocks and stores the map data,

wherein the speech recognition section executes the second speech recognition processing for the speech recognition object word that is present as a display object in an overlapped block, which is overlapped with an expanded region obtained by enlarging a display region of the image currently displayed on the display section, and when a display scale of the image currently displayed on the display section is rendered to be a contracted scale.

12. The navigation device according to claim 11, wherein the speech recognition section executes the second speech recognition processing for the speech recognition object word present in the overlapped block that is overlapped with the display region at a rate not less than a predetermined area.

13. The navigation device according to claim 1, wherein the display processor section allows a range of a display scale that is made to be an object for the second speech recognition processing to be further displayed on the display section.

14. The navigation device according to claim 1, wherein the display

processor section allows the speech recognition object word recognized through the second speech recognition processing to be further displayed on the display section.

15 15. A navigation device adapted to be installed on a vehicle and enabling information to be provided to an occupant of the vehicle, the navigation device comprising:

displaying means for displaying an image to an occupant of a vehicle;

10 speech recognition processing means for processing to execute speech recognition processing for a voice input relating to a speech recognition object word that is a word to be an object for speech recognition, in such a manner that in a case that a failure occurs in recognition as to the speech recognition object word, second speech recognition processing is executed for the speech recognition object word except for the speech recognition object word present in the image currently displayed in the display section;
15 and

information providing processing means for processing to compel a predetermined image to be displayed on the display section based on a recognized content resulting through the speech recognition processing in a case that the speech recognition object word is recognized through the
20 speech recognition processing.

16. A method of recognizing a speech in a navigation device adapted to be installed on a vehicle and enabling information to be provided to an occupant of the vehicle through a display section, the method comprising:

25 executing, when speech recognition processing for a voice input relating to a speech recognition object word that is a word to be an object for speech recognition is performed and in the presence of a failure of recognition for the speech recognition object word, second speech recognition processing for the speech recognition object word except for the speech recognition object word present in the image currently displayed in a display section;
30 and

displaying, when the speech recognition processing for the voice input relating to the speech recognition object word and in the presence of

recognition of the speech recognition object word, a predetermined image on the display section based on a recognized content resulting through the speech recognition processing.